



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 08.06.20

Duration: 40 min

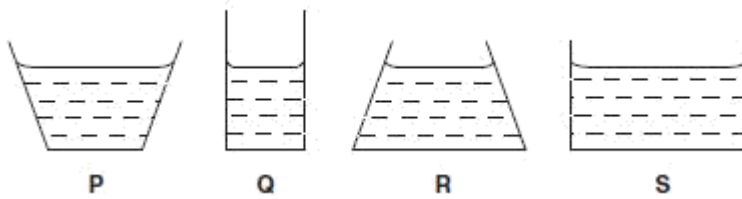
Worksheet Solution 32

Full Marks: 15

FORCE AND PRESSURE/ PRESSURE IN

LIQUIDS Choose the Correct options:

1. What is any substance than can flow and take the shape of the container that holds it
 - a) pressure
 - b) fluid**
 - c) atmospheric pressure
 - d) density
2. Fluids can also include__ and__.
 - a) solids and liquids
 - b) solids and gases
 - c) liquids and gases**
 - d) liquids
3. In liquids, the volume stays the same no matter what shape the container is.
 - a) True**
 - b) False
4. In gases, the volume does stay the same when placed in different containers
 - a) True**
 - b) False
5. What is the amount of force per unit of area applied to an object's surface?
 - a) fluid
 - b) pressure**
 - c) atmospheric pressure
 - d) density
6. What is the equation used to calculate pressure?
 - a) pressure= force/mass
 - b) pressure =mass/volume
 - c) pressure=area/force
 - d) pressure=force/area**
7. What is the unit of measurement for pressure?
 - a) pascal**
 - b) grams
 - c) milliliters
 - d) meters
8. A fluid applies pressure perpendicular to all sides of an object in contact with the fluid.
 - a) True**
 - b) False
9. Pressure decreases when the surface area over which a force is applied increases
 - a) True**
 - b) False
10. Pressure increases when the surface area over which a force is applied increases.
 - a) True
 - b) False**
11. The diagrams show, to the same scale, the vertical sections of a set of circular vessels, each containing the same depth of water.



Which one of the following statements is correct?

- a) **The water exerts the same pressure on the base of each vessel.**
 - b) The water exerts the same force on the base of each vessel.
 - c) The water exerts the greatest pressure on the base of vessel S.
 - d) The water exerts the greatest pressure on the base of vessel P.
12. In underwater pressure, as the depth increases, so does the pressure.
- a) **True**
 - b) False
13. Underwater pressure also helps to explain why the wall of a dam is thicker at the bottom than the top because it applies more pressure at the bottom than at the top.
- a) **True**
 - b) False
14. When comparing two or more fluids, the fluid that weighs more is considered a lot denser than the other fluid(s).
- a) **True**
 - b) False
15. Pressure exerted by liquids at the bottom depends on
- a) **height of the liquid column**
 - b) shape of the column
 - c) shape of the container
 - d) none